

RNA polymerase stops at pause site in
attenuator region [J.Mol.Biol.(1997)268:54-68]

Ribosome binds, starts translation
and releases the RNA polymerase

EXCESS
Ribosome stalls at
STOP codon



"SENSE" AMINOACID

STARVATION

Ribosome stalls at
"sense" aminoacid codons

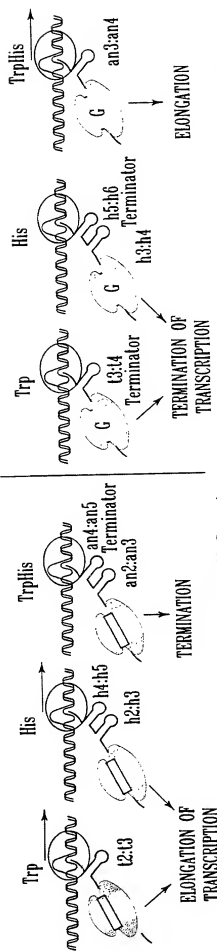
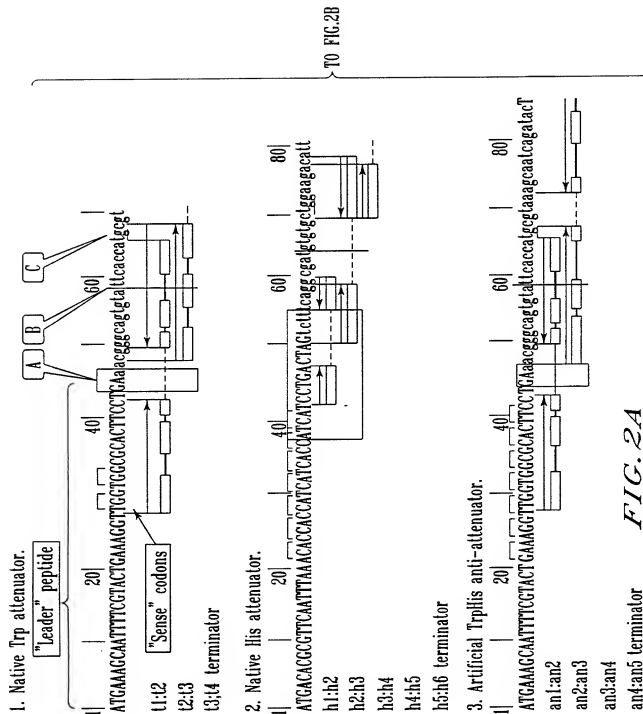


FIG. 1



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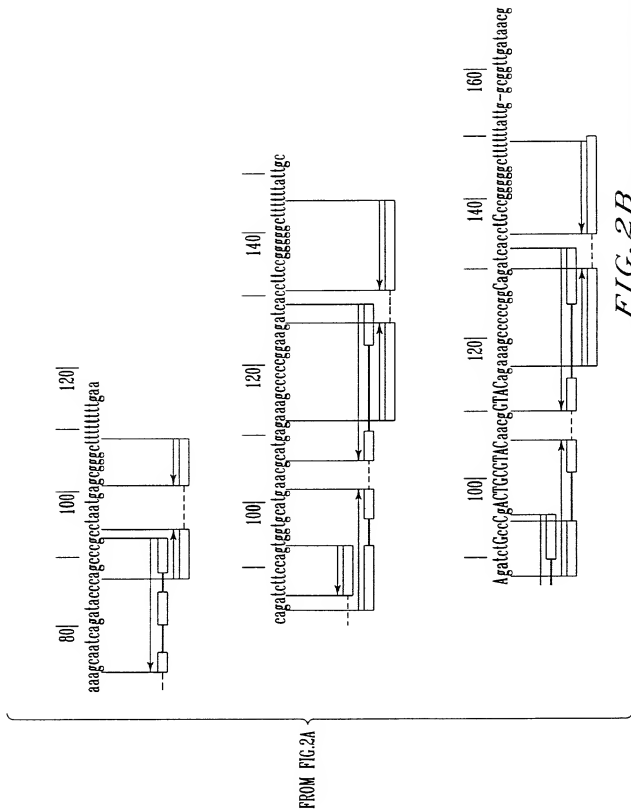
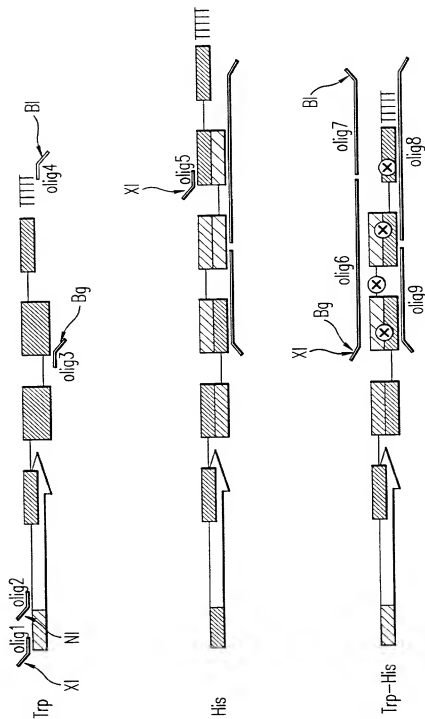


FIG. 3a

GENERAL SCHEME OF THE NEW ARTIFICIAL "ANTI-ATTENUATOR" REGULATORY ELEMENT CONSTRUCTION



⊗ -NUCLEOTIDE CHANGING IN COMPARISON TO THE NATIVE SEQUENCE.

FIG. 3b

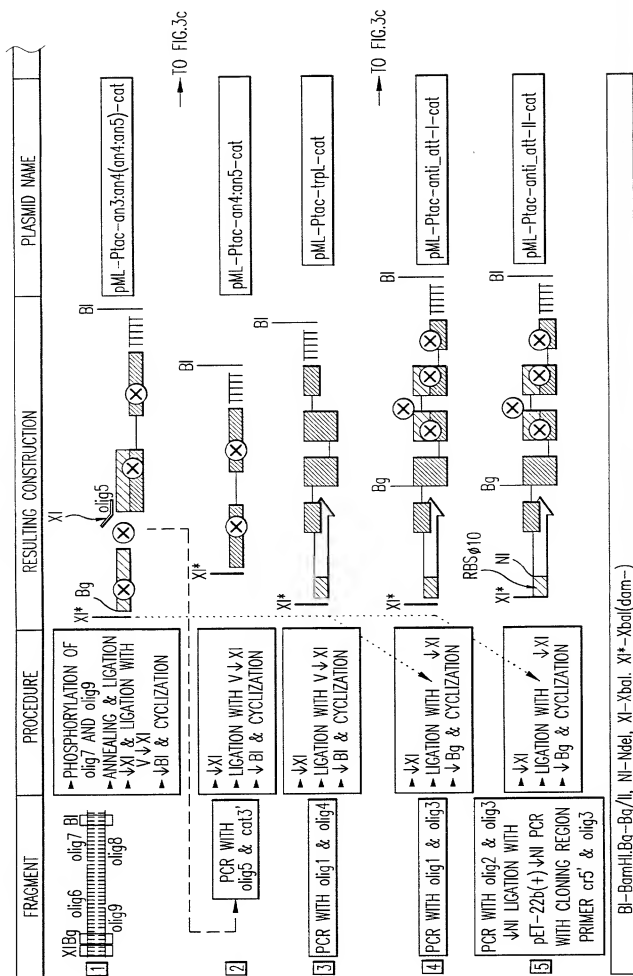
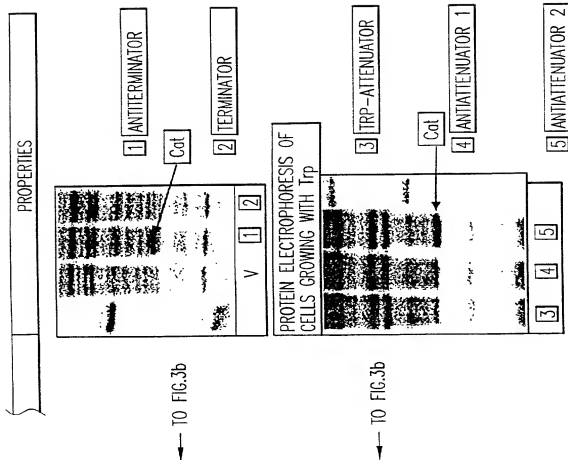


FIG. 3c



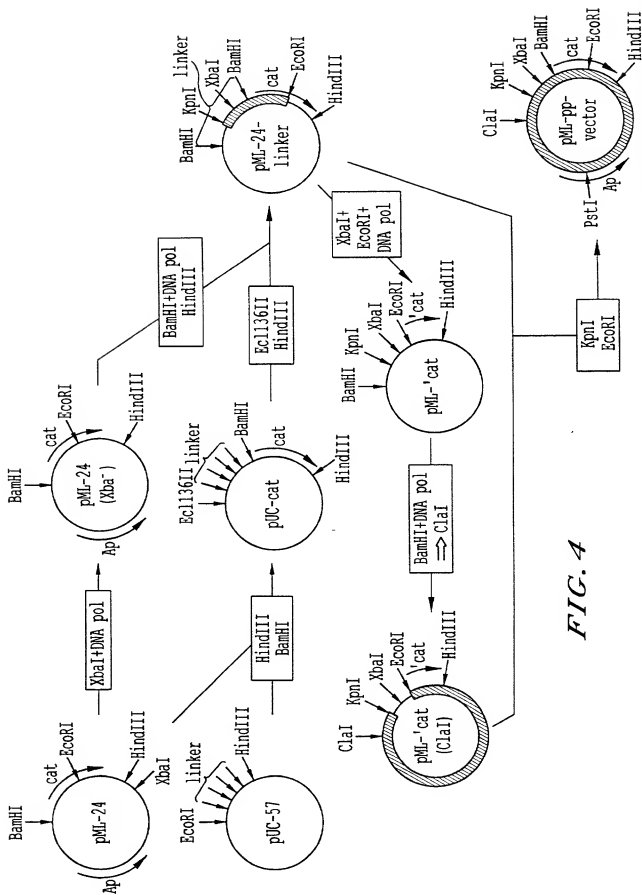
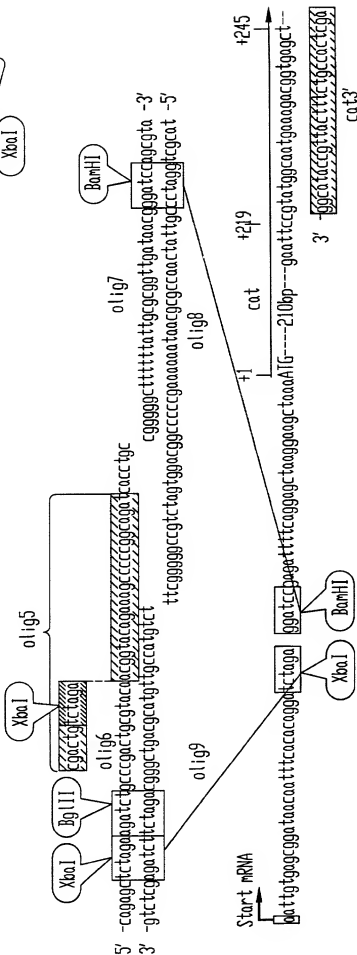
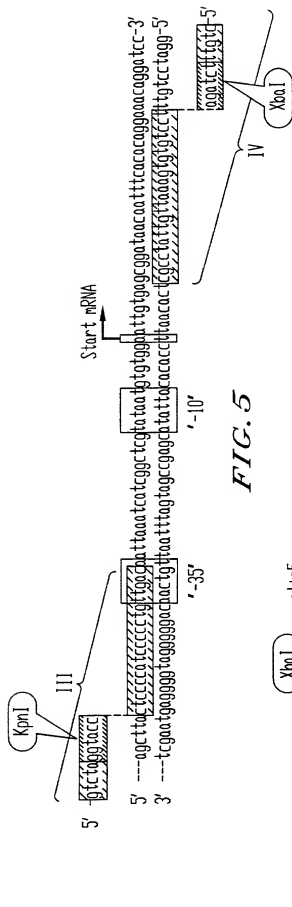


FIG. 4



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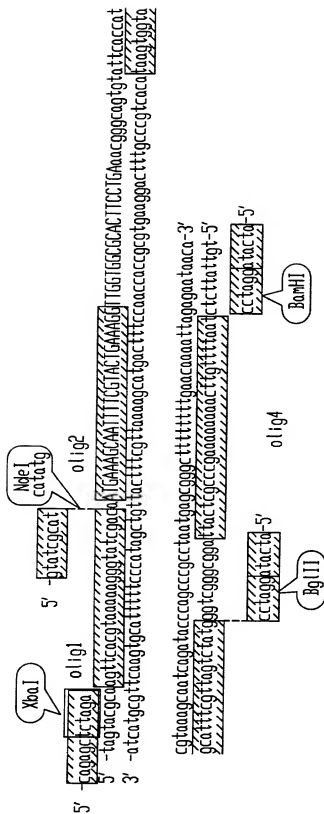


FIG. 7

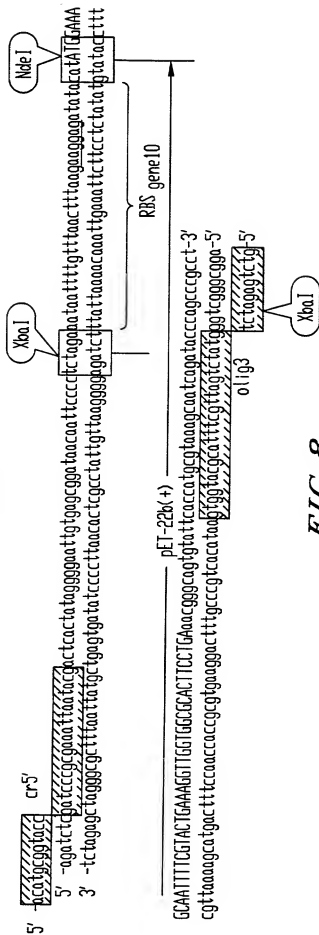


FIG. 8